INTERNATIONAL SEARCH REPORT

International application No. PCT/CA2005/000146

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: A42B-3/04 A63B-69/00 A63B-71/10 G01C-9/00 G08B-21/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: A42B-3/04 A61B-5/00 A61B-5/103 A63B-69/00 A63B-71/10 G01C-9/00 G08B-21/02 G08B-21/0O

CPC: 33/113 2/71 to 2/73.1 273/70 to 273/74 273/77

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)

WEST, ESP@CENET, Canadian Patent Database, and Internet

Keywords: helmet, sensor, position and safety

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | | Relevant to claim No(s), | |
|------------|---|------|--------------------------|---------|
| х | US 6331168 B1 (CREATIVE SPORTS TECHNOLOGIES, INC.) December 18, 2001 Whole document | 1-20 | • ·. | |
| x | US 5916181 B1 (CREATIVE SPORTS TECHNOLOGIES, INC.) June 29, 1999 Whole document | 1-20 | | |
| | | - 9 | | المسكرة |
| ; A | US 2002060633 A1 (CRISCO, III et al.) May 23, 2002 Whole document | 1-20 | | ** |
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| [] F | Further documents are listed in the continuation of Box C. | [X] See patent family annex. |
| * "A" "E" "L" "O" "p" | Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance earlier application or patent but published on or after the international filling date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filling date but later than the priority date claimed | "I" later document published after the intermational filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such clocuments, such combination being obvious to a person skilled in the art "&" document member of the same patent family |
| Name Canad Place | of the actual completion of the international search farch 2005 (30-03-2005) the and mailing address of the ISA/CA addian Intellectual Property Office the du Portage I, C114 - 1st Floor, Box PCT | Date of mailing of the international search report 15 April 2005 (15-04-2005) Authorized officer Eric Breton (819) 997-5209 |
| | 'ictoria Street neau, Quebec K1A 0C9 | |

Facsimile No.: 001(819)953-2476

INTERNATIONAL SEARCH REPORT

international application No. PCT/CA2005/000146

| Patent Document | Publication | Patent Family | Publication |
|------------------------|-------------|---|--|
| Cited in Search Report | Date | Member(s) | Date |
| U\$6331168 B1 | 18-12-2001 | AU734844 B2 AU1199299 A AU3315201 A CA2310817 A1 CA2402161 A1 EP1030595 A1 EP1261275 A1 JP2001520903T T JP2003525677T T US5916181 A | 21-06-2001 17-05-1999 17-09-2001 06-05-1999 13-09-2001 30-08-2000 04-12-2002 06-11-2001 02-09-2003 29-06-1999 |
| | | US6048324 A US6331168 B1 US6730047 B2 US2004171969 A1 US2004225236 A1 WO0166006 A1 WO9921477 A1 | 11-04-2000 18-12-2001 04-05-2004 02-09-2004 11-11-2004 13-09-2001 06-05-1999 |
| Ū\$5916181 B1 | 29-06-1999 | AU734844 B2 AU1199299 A AU3315201 A CA2310817 A1 CA2402161 A1 EP1030595 A1 EP1261275 A1 JP2001520903T T JP2003525677T T US5916181 A US6048324 A US6331168 B1 US6730047 B2 US2004171969 A1 US2004225236 A1 WO0166006 A1 | 21-06-2001 17-05-1999 17-09-2001 06-05-1999 13-09-2001 30-08-2000 04-12-2002 06-11-2001 02-09-2003 29-06-1999 11-04-2000 18-12-2001 04-05-2004 02-09-2004 11-11-2004 13-09-2001 06-05-1999 |
| US2002060633 A1 | 23-05-2002 | US6826509 B2 | 30-11-2004 |

INTERNATIONAL SEARCH REPORT

mernational application No. PCT/CA2005/000146

| Box No. II | Observations where certain claims were found unsearchable (Continuation of item 2 of the first sheet) |
|-------------------------------------|---|
| This internate reasons: | ational search report has not been established in respect of certain claims under Article 17(2)(a) for the following |
| | laim Nos. : ecause they relate to subject matter not required to be searched by this Authority, namely : |
| | |
| h | laim Nos.: cause they relate to parts of the international application that do not comply with the prescribed requirements to such an extent at no meaningful international search can be carried out, specifically: |
| | |
| | laim Nos.: ecause they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a). |
| <u>:</u> . | |
| Box No. III | Observations where unity of invention is lacking (Continuation of item 3 of first sheet) |
| This Interna | tional Searching Authority found multiple inventions in this international application, as follows: |
| of in in m G w in | roup A: Claims 1-14 are directed to an electronic safety device comprising a position sensor for sensing the position of the head a user and providing a signal indicative of the head position, a processor connectable to the position sensor for receiving the dicative signal, for determining if the head is in an unsafe position and for producing a signal qualifying the determination and an dicator conectable to the processor for receiving the signal qualifying the determination and subsequently indicating, and a ethod for using such device; roup B: Claims 15-18 are directed to a method for operating an electronic safety device comprising the steps of determining mether or not the device is in use and switching on or maintining an active mode for the device if it is determined that the device is use; and roup C: Claims 19 and 20 are directed to a sport-specific helmet comprising a shell providing a main cavity, a layer of padding using the inside of the main cavity, and an electronic device for determining and indicating that a head is in an unsafe position. |
| 1. [] A | as all required additional search fees were timely paid by the applicant, this international search report covers all |
| : s | earchable claims. |
| | as all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite ayment of any additional fee. |
| 3. [] A | as only some of the required additional search fees were timely paid by the applicant, this international search report |
| 4 [] 1 | overs only those claims for which fees were paid, specifically claim Nos. : |
| 4. [] 1 | To required additional search fees were timely paid by the applicant. Consequently, this international search report is |
| • | estricted to the invention first mentioned in the claims; it is covered by claim Nos.: |
| | Remark on Protest [] The additional search fees were accompanied by the applicant's protest. |
| | [] No protest accompanied the payment of additional search fees. |